CONTENTS OF VOLUME 41

FEBRUARY, 1955, NUMBER 1

Honigberg, M. Bronislaw. Structure and Morphogenesis of Two New Species of *Hexamastix* from Lizards 1
Arthur, Don R. A New Species of Tick from Australia 18
Cort, W. W., D. J. Ameel, and Anne Van der Woude. Germinal Development in the Sporocysts of a Bird Schistosome *Trichobilharzia physellae* (Talbot, 1936) 24
Wu, Liang-Yu. Studies on *Trichinella spiralis*. I. Male and Female Reproductive Systems 40
Hargis, William J., Jr. A New Species of *Benedenia* (Trematoda: Monogenea) from *Girella nigricans*, the Opaleye 48
Locker, Betty. The Identification of *Taenia tenuicollis* Rudolphi, 1819, in North America 51
Burrows, Robert B. and Gerald E. Klink. An Abnormal Proglottid of *Taenia* saginata 56
Smith, William W. The Abundance and Distribution of the Ectoparasites of the House Mouse in Mississippi 58
Gastfriend, Allen. New Host Records for the Immature Stages of the Tick *Dermacentor parumapertus* 63
Okpala, Ikednachuku and Reginald D. Manwell. Chemotherapy of Avian Malarias: Trial of Certain Standard Antimalarials on *Plasmodium hexamerium* and *P. elongatum* Malaria in Ducks 65
Lee, Sheridan H. The Mode of Egg-Dispersal in *Physaliptera phrynosoma* Ortlepp: Spiruroidea), a Gastric Nematode of Texas Horned Toads, *Phrynosoma cornutum* 70
Voge, Marietta. Notes on Four Hymenolepidid Cestodes from Shrews 74
Davis, Gordon E. Observations on the Biology of the Argasid Tick *Ornithodoros puertoricensis* Fox 76
Schiller, Everett L. Studies on the Helminth Fauna of Alaska. XXIII. Some Cestode Parasites of Eider Ducks 79
Sprague, Victor and P. E. Orr, Jr. *Nematopsis ostrearum* and *N. prytherchi* (Eugregarinina: Porosporidae) with Special Reference to the Host-Parasite Relations 89
Moore, Donald V. Sexual Anomalies in the Male *Schistosoma japonicum* (Formosan Strain) 104
Sandground, J. H. and Donald V. Moore. Notes on the Rearing of *Oncomelania* spp. in the Laboratory 109
Coil, William H. Growth and Variation in *Catoproides lacustri* Loewen, 1929 113
Grundmann, Albert, Dale Parker, and Gordon Stagg. Huge Helminth Cyst Found in the Black-Tailed Jackrabbit 114
Griffiths, H. J. *Stagnicola palustris* (Müller), an Intermediate Host for *Fascioloides magna* Bassi, 1875), in Minnesota 115
Wood, Raymond A. and John D. Mizelle. Another Case of *Ascaridia galli* in a Hen's Egg 115
Landers, Earl J. *Eimeria punctata* N. Nov. for *Eimeria honessi* Landers, 1952, Preoccupied 115
Minutes of the 44th Council Meeting and 29th Annual Meeting, American Society of Parasitologists 115
Dates for Mailing of Numbers of Volume 40 (1954) 123

APRIL, 1955, NUMBER 2

Philip, Cornelius B. There's Always Something New under the "Parasitological" Sun (the Unique Story of Helminth-Borne Salmon Poisoning Disease) 127
Byrd, Elon E. and Fulton W. Fite. Studies on the Anatomical Features of *Multiceps packi* Christensen, 1929, a Cestode Parasite of the Dog 149
Tromba, Francis G. The Role of the Earthworm, *Eisenia foetida*, in the Transmission of *Stephanurus dentatus* 157
Norman, Lois, E. H. Sadun, R. W. Redding, and D. E. Cooperrider. Flocculation Test in Sera from Hogs Experimentally and Naturally Infested with *Trichinella spiralis* 162

Senger, Clyde M. Observation on Cestodes of the Genus *Hymenolepis* in North American Shrews 167
Saunders, Dorothy Chapman. The Occurrence of *Haemogregorina bigemina* Laveran and Mesnil and *H. achiri* N.Sp. in Marine Fish from Florida 171
Robinson, Edwin J., Jr., A Description of Attempts to Infect Mosquitoes with Avian Filarial Worms 176
Furman, Deane P. and Vernon J. Tipton. The Genus *Myonyssus* Tiraboschi (Acarina: Dermanyssidae) Including a New Species from Pika 179
Hargis, William J., Jr. Monogenetic Trematodes of Gulf of Mexico Fishes, Part II. The Superfamily Gyrodactyloidea. (Continued) 185
Lindquist, William D. and S. Y. Li. Some Nematodes of Rats from Guam. M. I. and Notes on a Species of *Rictularia*. 194
Beck, D. Elden. Some Unusual Distributional Records of Ticks in Utah. 198
Luttermoser, George W. Studies on the Chemotherapy of Experimental Schistosomiasis III. Harvest of *Schistosoma mansoni* Cercariae by Forced Nocturnal Emergence from *Australorbis glabratus* 201
Robinson, Edwin J., Jr. Observations on the Epizootiology of Filarial Infections in Two Species of the Avian Family Corvidae 209
Edgar, S. A. Sporulation of Oocysts at Specific Temperatures and Notes on the Prepatent Period of Several Species of Avian Coccidia 214
Stunkard, Horace W., F. C. Bishopp, and D. H. Wenrich. In Memoriam: Henry Ellsworth Ewing (1883–1951) 217
Mann, Phillip H. and Italo Fratta. Observations on the Experimental Transfer of the Microfilariae of *Dirofilaria immitis* to the Mouse, Rat, and the Chick Embryo 218
Kelley, George W., Jr. The Daily Egg Production of *Haemonchus contortus* (Nematoda) in a Calf 218
Scott, J. Allen. Preparation and Use of Glychrogel Mounting Medium 219
Tonn, Robert J. The White Sucker, *Catostomus commersonii* (Lacepede), a New Host of *Caryophyllaeus terebans* (Linton, 1893) 219

JUNE, 1955, NUMBER 3

Hoogstraal, Harry. Notes on African *Haemaphysalis* Ticks. I. The Mediterranean-Littoral Hedgehog Parasite *H. erinacei* Pavesi, 1884 (Ixodoidea, Ixodidae) 221
Kerr, K. B. Age of Chickens and the Rate of Maturation of *Ascaridia galli*. 233
Moore, Donald V. and Henry E. Meleney. Development of *Schistosoma mansoni* in the Peritoneal Cavity of Mice 235
Theiler, Gertrud and Harry Hoogstraal. The Identity of *Ornithodoros savigny* (Audouin, 1827) and *O. parvimentosus* Neumann, 1901 (Ixodoidea, Argasidae) 245
Knight, Robert A. and Ivan Pratt. The Life-Histories of *Allassogonoporus vespertilionis* Macy and *Acanthatrium oregonense* Macy (Trematoda: Lecithodendriidae) 248
Self, J. Teague and Jack H. Esslinger. A New Species of Bothriocephalid Cestode, from the Fox Squirrel (*Sciurus niger* Linn.) 256
Odlaug, Theron O. The Quantitative Determination of Glycogen in Some Parasites of Amphibia 258
Leigh, W. Henry. The Morphology of *Gigantobilharzia huttoni* (Leigh, 1953) an Avian Schistosome with Marine Dermatitis-Producing Larvae 262
Voge, Marietta. *Hymenolepis virilis* N.Sp., a Cestode from the Shrew *Sorex trowbridgei* in California 270
Atchley, Floyd O., William R. Traylor, and A. A. Weathersbee. Effects of Variation in Reservoir Levels, Rainfall, and Temperature on Anopheline Densities in a Coastal Plains Area in South Carolina 273
Ryckman, Raymond E., Chester C. Lindt, Dean Spencer, and Robert D. Lee. Additional Collections of Ticks from Southern California 280
Brennan, James M. Chatia Brennan, 1946: A New Generic Character and additional Notes (Acarina: Trombiculidae) 283
Seibold, H. R. and Ralph E. Thorson. *Klossiella equi* N.Sp. from the Kidney of an American Jack 285
Crossley, D. A., Jr. A New Species of Chigger Mite from Colorado (Acarina, Trombiculidae) 289
Coil, William H. *Infula macrophallus* Sp. Nov., A Dioecious Cestode Parasitic in the Back-Necked Stilt, *Himantopus mexicanus* 291

Sanborn, Warren R. Microagglutination Reactions of *Trichomonas suis, T.* Sp., and *T. foetus* 295
Bauman, Preston M., Luis Berrios-Duran and Donald B. McMullen. Effectiveness of Abbott's Insect Repellent Cream (E 4856) as a Protective Barrier Against *Schistosoma mansoni* in Mice 298
Cuckler, Ashton C. and Christine M. Malanga. Studies on Drug Resistance in Coccidia 302
Kohls, Glen M. Two New Species of Ticks from North Borneo (Acarina: Ixodidae) 312
Martin, D. Young, Don E. Eyles, Robert W. Burgess, and Geoffrey M. Jeffery. Experimental Testing of the Immunity of Negroes to *Plasmodium vivax* 315
Stoll, Norman R. Zoological Nomenclatorial Notes 318
American Society of Parasitologists, Thirtieth Annual Meeting: Preliminary Announcement 320
Errata 320
Butler, T. H. Re-Discovery of the Parasitic Cirripede, *Myctomorpha vancouverensis* Potts, in British Columbia Waters 321
Scott, D. M. On the Early Development of *Porrocaecum decipiens* 321
Parmalee, Paul W. A Nycteribiid Fly New to Illinois 322
Benton, Allen H. A Modified Technique for Preparing Whole Mounts of Siphonaptera 322
Barr, A. Ralph. A Case of "Mange" of the Domestic Rabbit Due to *Cheyletiella parasitovorax* (Megnin) 323
Bullock, Wilbur L. The Occurrence of *Neoechinorhynchus cristatus* Lynch, 1936, (Acanthocephala) in Eastern North America 323
Knapp, Stuart E., George M. Padilla, and F. M. Philips. An Apparent Human Case of Myiasis by the Horn Fly 324
Ameel, Donald J. Parasites of the Coyote *Canis latrans* Say, in Kansas 325
Hallman, J. N., DeLamater, and J. B. Michaelson. Esterase Activity in *Endamoeba histolytica* 325
Margolis, Leo. *Corynosoma hadweni* Van Cleave a Probable Synonym of *C. wegeneri* Heinze (Acanthocephala) 326
Hoffman, Glenn L. Notes on the Life Cycle of *Fibricola cratera* (Trematoda: Strigeida) 327
Stirewalt, M. A. and J. F. Bronson. Description of a Plastic Mouse Restraining Case 328
Churchill, Helen M. Survival of Frog Lung Flukes, *Haematolocchus* Sp. in Certain Artificial Media 328
Pellegrino, J. and D. G. Macedo. A Simplified Method for the Concentration of Cercariae 329
Malewitz, Thomas D. and Michael G. Lysenko. Incidence of *Enterobius vermicularis* in 535 Puerto Rican Children 330

AUGUST, 1955, NUMBER 4

Menzel, R. Winston and Sewell H. Hopkins. The Growth of Oysters Parasitized by the Fungus *Dermocystidium marinum* and by the Trematode *Bucephalus cuculus*.. 333
Levine, Norman D. A Punched Card System for Filing Parasitological Bibliography Cards 343
Jacobs, Leon, Marjorie L. Melton, and M. Katherine Cook. Observations on Taxoplasmosis in Dogs 353
Hoogstraal, Harry. Notes on African *Haemophysalis* Ticks. II. The Ground-Squirrel Parasites, *H. calcarata* Neumann, 1902, and *H. houyi* Nuttall and Warburton, 1915 (Ixodoidea, Ixodidae) 361
Martin, W. E. and Robert E. Kuntz. Some Egyptian Heterophyid Trematodes 374
Hitchcock, Dorothy J. The Life Cycle of *Isospora felis* in the Kitten 383
Stuart, J. H., J. McLintock, G. W. Schwindt and K. P. Depner. Bacteria Associated with Wild and Laboratory-Reared Horn Flies, *Siphona irritans* (L.) (Diptera: Muscidae) 398
Jameson, E. W., Jr. A Summary of the Genera of Myobiidae (Acarina) 407
Thomson, H. M. *Perezia fumiferanae* N. Sp., a New Species of Microsporidia from the Spruce Budworm *Choristoneura fumiferana* (Clem.) 416
Millemann, Raymond E. Studies on the Life-History and Biology of *Oochoristica deserti* N. Sp. (Cestoda: Linstowiidae) from Desert Rodents 424

R. M. Cable. Taxonomy of Some Digenetic Trematodes from Sturgeons 441
Booth, Ernest S. Parasites from Coati (*Nasua narica*) 441
Judd, W. W. A Collection of Fleas from the Vicinity of Fort Simpson, Northeast Territories, Canada 441
Lundahl, Walter S. Notes on Collecting Trematode-Infected Amnicolidae in Deep Waters 442

OCTOBER, 1955, NUMBER 5

Stubblefield, Joseph W. The Morphology and Life History of *Amphiacantha ovalis* and *A. attenuata*, Two New Haplosporidian Parasites of Gregarines 443
Ulmer, Martin J. Notes on the Morphology and Host-Parasite Specificity of *Fibricola cratera* (Barker and Noll, 1915) Dubois 1932 (Trematoda: Diplostomatidae) 460
Kuntz, Robert E. and George M. Malakatis. Susceptibility Studies in Schistosomiasis. IV. Susceptibility of Wild Mammals to Infection by *Schistosoma haematobium* in Egypt, with Emphasis on Rodents 467
Sadun, Elvio H. and L. Norman. The Use of an Acid Soluble Protein Fraction in the Flocculation Test for the Diagnosis of Trichinosis 476
Campbell, Charles H. The Antigenic Role of the Excretions and Secretions of *Trichinella spiralis* in the Production of Immunity in Mice 483
Benton, Allen H. The Taxonomy and Biology of *Epitedia wenmanni* (Rothschild 1904) and *E. testor* (Rothschild, 1915) (Hystrichopsyllidae: Siphonaptera) 491
Neiland, Kenneth A. The Helminth Fauna of Nicaragua I. A New Genus and Species of Cestode (*Dilepinidae*) from the Hummingbird, *Phaeochroa cuvierii roberti* 495
Coker, Coit M. Effects of Cortisone on *Trichinella spiralis* Infections in Non-Immunized Mice 498
Drudge, J. H., S. E. Leland, Jr., Zae N. Wyant, and G. W. Elam. Studies on *Trichostrongylus axei* (Cobbold, 1879) I. Some Experimental Host Relationships .. 505
Rigdon, R. H. and John W. Hendricks. Myxosporidia in Fish in Waters Emptying into Gulf of Mexico 511
Furman, Deane P. *Steptolaelaps* (Acarina: Laelaptidae) a New Genus of Mites Parasitic on Neotropical Rodents 519
Newton, Walter L. The Establishment of a Strain of *Australorbis glabratus* which Combines Albinism and High Susceptibility to Infection with *Schistosoma mansoni* 526
Chan, K. F. The Distribution of Larval Stages of *Aspiculuris tetraptera* in the Intestine of Mice 529
Coil, William H. Notes on the Genus *Maritrema* Nicoll, 1907 (Trematoda: Microphallidae) with the Description of Two New Species 533
Margolis, Emmanuel. An Unusual Case of Schistosomiasas with Special Epidemiological Aspects 533
Shumard, R. F., C. A. Herrick and A. L. Pope. The Effect of Diet on the Length of Third Stage Larvae Produced by Adult *Haemonchus contortus* Harbored by Lambs 542
Krause, A. C. Toxoplasma in Tissues of Man and Pets 545
Meyers, H. F. Physical Observations on Echinococcus Eggs, Part I 548
Donald L. Lehmann. A New Host Record for *Trypanosoma ambystomae* with the Description of an Additional Morphological Type of the Parasite 552
Barr, A. Ralph and John H. Thompson, Jr. A Case of Cutaneous Myiasis in a Child Caused by *Muscina* Sp. 552
Johnson, F. R. and A. C. Todd. "Aerosol Ot 100°/°" a Wetting Agent for Molluscacides 553
Morse, Roger A. Larval Nematode Recorded from Honeybee *Apis mellifera* L. 553

DECEMBER, 1955, NUMBER 6

Treat, Asher E. An Ectoparasite (Acarina: Mesostigmata) from Moths of the Genus *Zale* 555
Quay, M. B. Trypanosomiasis in the Collared Lemming, *Dicrostonyx torquatus* (Rodentia) 562
Voge, Marietta and Robert Rausch. Occurrence and Distribution of Hymenolepidid Cestodes in Shrews 566
Mann, Phillip H., Morton Harfenist and Edwin J. de Beer. The Effectiveness of Piperazine Citrate against Intestinal Helminths of the Cat and Dog 575

Schiller, Everett L. Studies on the Helminth Fauna of Alaska. XXVI. Some Observations on the Cold-Resistance of Eggs of *Echinococcus sibiricensis* 578
Allen, Rex W. Parasites of Mountain Sheep in New Mexico, with New Host Records 583
Sogandares-Bernal, Franklin. Some Helminth Parasites of Fresh and Brackish Water Fishes from Louisiana and Panama 587
Khabir, Parviz A. and Reginald D. Manwell. Glucose Consumption of *Plasmodium hexamerium* 595
Ritterson, Albert L. Studies on Leishmaniasis in the Golden Hamster 603
Bair, Thomas D. The Oxygen Consumption of *Rhabditis strongyloides* and Other Nematodes Related to Oxygen Tension 613
Levine, Norman D., Virginia Ivens and Francis J. Kruidenier. Two New Species of *Klossia* (Sporozoa: Adeleidae) from Deer Mouse and a Bat 623
Hedrick, Robert M. A Trypanosome from the Big Brown Bat, *Eptesicus fuscus fuscus* (Beauvois), in Minnesota 629
Klink, Gerald E. and Robert B. Burrows. Ingestion of *Trichuris trichiura* Ova by *Balantidium coli* 634
Lleras Andrés Soriano and Chiatung Pan. Two Cases of Physaloptera Infection in Man from Colombia 635
Nelson, W. A. Artifical Feeding of Certain Ectoparasites through Membranes 635
SanJean, John and B. V. Travis. An Eight-Legged Flea, *Orchopeas howardi howardi* Baker 636
Mann, Phillip H. Additional Information Pertaining to the Incidence of Heart-Worms and Intestinal Helminths in Stray Cats and Dogs in Bergen County, Northern New Jersey 637
Senger, Clyde M. and Kenneth A. Neiland. Helminth Parasites of Some Fur-Bearers of Oregon 637
Holling, Joan and C. David Fowle. *Isospora buteonis* Henry in the Goshawk (*Accipeter gentilis*) 638
Ryckman, Raymond E. and John C. Roos. Chiggers Associated with Squamous Papillomata on a Perognathus Mouse 639
Burgess, G. D. Arthropod Ectoparasites of Richardson's Ground Squirrel 639
Nesslinger, Carlita L. The Incidence of Opalinid Infusorians in Two Species of Tadpoles 640
Hall, J. E., B. Sonnenberg and J. R. Hodes. Some Helminth Parasites of Rodents from Localities in Maryland and Kentucky 640
Berrios-Duran, Luis A. An Efficient Device for Exposing Small Animals to Schistosome Cercariae and Holding Small Animals for Post Mortem Examination 641
Yunker, Conrad E. Apparent Extrinsic Variation in *Knemidokoptes pilae* Lavoipierre and Griffiths, 1951 (Acarina: Sarcoptiformes) 642
Seibold, H. R. and Ralph E. Thorson. *Klossiella equi*:—Correction 643
Books and Monographs Received 644
Index for Volume 41, Numbers 1–6 645
Index to December Supplement 653

INDEX FOR VOLUME 41, NOS. 1–6

Acanthatrium oregonense (Trematoda), life history of 248
Agamomermis sp. (Nematoda), from *Apis mellifera* L. 553
Allassogonoporus vespertilionis (Trematoda), life history 248
ALLEN, REX W. Parasites of mountain sheep in New Mexico, with new host records 583
AMEEL, DONALD J. Parasites of the coyote *Canis latrans* Say, in Kansas 325
AMEEL, DONALD J. (see Cort, Ameel and Van der Woude) 24
American Society of Parasitologists:
Dates for mailing numbers of Volume 40 (1954) 123
Membership List 121
Minutes, Business Meeting 120
Minutes, Council Meeting 115
Preliminary Announcement 320
Amphiacantha attenuata (Protozoa), new species from the gregarine *Lecudina* sp. 443
Amphiacantha ovalis (Protozoa), new species from the gregarine *Lecudina* sp. 443
Anopheline densites, and climate 273
Arostiellina reticulata (Cestoda), new genus and species from Nicaragua hummingbird 495
Arthropod ectoparasites, on *Citellus richardsonii richardsonii* 639
ARTHUR, DON R. *Ixodes kohlsi*, a new species of tick from Australia 18
Ascaridia galli (Nematoda), in hen's egg 115
Ascaridia galli (Nematoda), rate of maturation 233
Aspiculuris tetraptera (Nematoda), distribution of in mouse intestine 529
ATCHLEY, FLOYD O. Effects of variations in reservoir levels, rainfall, and temperature on anopheline densities in a coastal plains area in South Carolina 273
BAIR, THOMAS D. The oxygen consumption of *Rhabditis strongyloides* and other nematodes related to oxygen tension 613
Balantidium coli (Protozoa), ingestion of *Trichuris trichiura* ova by 634
BARR, A. RALPH A case of cutaneous myiasis in a child caused by *Muscina* sp. 552
BARR, A. RALPH A case of "mange" of the domestic rabbit due to *Cheyletiella parasitivorax* (Megnin) 323
BAUMAN, PRESTON M. Effectiveness of Abbott's insect repellent cream (E 4856) as a protective barrier against *Schistosoma mansoni* in mice 298
BECK, E. ELDEN Some unusual distributional records of ticks in Utah 198
DE BEER, EDWIN J. (see Mann, Harfenist and de Beer) 575
Benedenia (Trematoda), new species of from *Girella nigricans* 48
BENTON, ALLEN H. A modified technique for preparing whole mounts of Siphonaptera 322
BENTON, ALLEN H. The taxonomy and biology of *Epitedia wenmanni* (Rothschild, 1904) and *E. testor* (Rothschild, 1915) (Hystrichopsyllidae: Siphonaptera) 491
BERRIOS-DURAN, LUIS A. An efficient device for exposing mice to schistosome cercariae and holding small animals for post mortem examination 642
BERRIOS-DURAN, LUIS (see Bauman, Berrios-Duran and McMullen) 298
BISHOPP, F. C. (see Stunkard, Bishopp and Wenrich) 217
BOOTH, ERNEST S. Parasites from coati (*Nasua narica*) 441
Bothriocephalus sciuri (Cestoda), new species from *Sciurus niger* 256
BRENNAN, JAMES M. *Chatia* Brennan, 1946: A new generic character and additional notes (Acarina: Trombiculidae) 283
BRONSON, J. F. (see Stirewalt and Bronson) 328
Bucephalus cuculus (Trematoda), in oysters 333
BULLOCK, WILBUR L. The occurrence of *Neoechinorhynchus cristatus* Lynch, 1936, in eastern North America 323
BURGESS, G. D. Arthropod ectoparasites of Richardson's ground squirrel 639
BURGESS, ROBERT W. (see Young, Eyles, Burgess and Jeffery) 315
BURROWS, ROBERT B. An abnormal proglottid of *Taenia saginata* 56
BURROWS, ROBERT B. (see Klink and Burrows) 634
BUTLER, T. H. Re-discovery of the parasitic cirripede, *Mycetomorpha vancouverensis* Potts, in British Columbia waters 321
BYRD, ELON E. Studies on the anatomical features of *Multiceps packi* Christensen, 1929, a cestode parasite of the dog 149
CABLE, R. M. Taxonomy of some digenetic trematodes from sturgeons 441
CAMPBELL, CHARLES H. The antigenic role of the excretions and secretions of *Trichinella spiralis* in the production of immunity in mice 483

Caryophyllaeus terebrans (Cestoda), in *Catostomus commersonii* 219
Catoptroides lacustri (Trematoda), growth and variation in 113
Cercariae, method for concentration of 329
Cestode parasites of eider ducks 79
CHAN, K. F. The distribution of larval stages of *Aspiculuris tetraptera* in the intestine of mice 529
Chatia (Acarina), new generic character and additional notes 283
Cheyletiella parasitivorax (Acarina), on domestic rabbit 323
Chiggers (Acarina), on *Perognathus* mouse 639
CHURCHILL, HELEN M. Survival of frog lung flukes, *Haematoloechus* sp. in certain artificial media 328
Coccidia, avian, prepatent period of 214
Coccidia, Avian, sporulation of oocysts of 214
Coccidia, drug resistance in 302
COIL, WILLIAM H. Growth and variation in *Catoptroides lacustri* Loewen, 1929 113
COIL, WILLIAM H. *Infula macrophallus* sp. nov., a dioecious cestode parasitic in the black-necked stilt, *Himantopus mexicanus* 291
COIL, WILLIAM H. Notes on the genus *Maritrema* Nicoll, 1907 (Trematoda: Microphallidae) with the description of two new species 533
COKER, COIT M. Effects of cortisone on *Trichinella spiralis* infections in non-immunized mice 498
COOK, M. KATHERINE (see Jacobs, Melton and Cook) 353
COOPERRIDER, D. E. (see Norman, Sadun, Redding and Cooperrider) 162
CORT, W. W. Germinal development in the sporocysts of a bird schistosome *Trichobilharzia physellae* (Talbot, 1936) 24
Corynosoma haduveni (Acanthocephala), probable synonym of *Corynosoma wegeneri* 326
Corynosoma wegeneri (Acanthocephala), synonym of 326
CROSSLEY, D. A., JR. A new species of chigger mite from Colorado (Acarina, Trombiculidae) 289
CUCKLER, ASHTON C. Studies on drug resistance in coccidia 302
DAVIS, GORDON E. Observations on the biology of the argasid tick *Ornithodoros puertoricensis* FOX 76
DELAMATER, J. N. (see Hallman, DeLamater and Michaelson) 325
DEPNER, K. R. (see Stirrat, McLintock, Schwindt and Depner) 398
Dermacentor parumapertus (Acarina), new host records for immature stages of 63
Dermocystidium marinum, fungus in oysters 333
Digenetic trematodes from sturgeons, taxonomy of 441
Dirofilaria immitis (Nematoda), experimental transfer of microfilariae of 218
DRUDGE, J. H. Studies on *Trichostrongylus axei* (Cobbold, 1879) I. Some experimental host relationships 505
Echinococcus (Cestoda), physical observations on eggs 548
Echinococcus sibiricensis (Cestoda), cold-resistance of eggs of 578
Ectoparasites, artificial feeding of through membranes 635
Ectoparasites, of house mouse in Mississippi 58
EDGAR, S. A. Sporulation of oocysts at specific temperatures and notes on the prepatent period of several species of avian Coccidia 214
Eimeria honessi (Protozoa), Landers, 1952, preoccupied 115
Eimeria punctata (Protozoa), n. nov. for *Eimeria honessi* Landers, 1952, preoccupied 115
ELAM, G. W. (see Drudge, Leland, Wyant and Elam) 505
Endamoeba histolytica (Protozoa), enterase activity in 325
Enterobius vermicularis (Nematoda), in Puerto Rican children 330
Epitedia testor (Insecta), taxonomy and biology of 491
Epitedia wenmanni (Insecta), taxonomy and biology of 491
ESSLINGER, JACK (see Self and Esslinger) 256
Euschöngastia finleyi (Acarina), new species of from *Neotoma* spp. 289
EWING, HENRY ELLSWORTH (1883–1951), *In Memoriam* 217
EYLES, DON E. (see Young, Eyles, Burgess and Jeffery) 315
Fascioloides magna (Trematoda), in *Stagnicola palustris* in Minnesota 115
Fibricola cratera (Trematoda), morphology and host-parasite specificity of 460
Fibricola cratera (Trematoda), notes on life history of 327
Filarial infections, epizootiology of in avian family Corvidae 209
Filarial worms, avian, attempts to infect mosquitoes with 176
FITE, FULTON W. (see Byrd and Fite) 149

Fleas (Insecta), from vicinity of Fort Simpson, Canada 441
FOWLE, C. DAVID (see Holling and Fowle) 638
FRATTA, ITALO (see Mann and Fratta) 218
FURMAN, DEANE P. The genus *Myonyssus* Tiraboschi (Acarina: Dermanyssidae) including a new species from pika 179
FURMAN, DEANE P. *Steptolaelaps* (Acarina: Laelaptidae) a new genus of mites parasitic on neotropical rodents 519
GASTFRIEND, ALLAN New host records for the immature stages of the tick *Dermacentor parumapterus* 63
Gigantobilharzia huttoni (Trematoda), morphology of 262
Glychrogel mounting medium, preparation and use of 219
Glycogen, determination of in Amphibia parasites 258
GRIFFITHS, H. J. *Stagnicola palustris* (Müller), an intermediate host for *Fascioloides magna* (Bassi, 1875), in Minnesota 115
GRUNDMANN, ALBERT Huge helminth cyst found in the black-tailed jackrabbit 114
Gyrodactyloidea (Trematoda), in Gulf of Mexico fishes 185
Haemaphysalis calcarata (Acarina), ground squirrel parasite 361
Haemaphysalis erinacei (Acarina), Mediterranean-littoral hedgehog parasite 221
Haemaphysalis houyi (Acarina), ground squirrel parasite 361
Haematoloechus sp. (Trematoda), survival of in artificial media 328
Haemogregarina achiri (Protozoa), new species in Florida marine fish 171
Haemogregarina bigemina (Protozoa), in Florida marine fish 171
Haemonchus contortus (Nematoda), daily egg production of in calf 218
Haemonchus contortus (Nematoda), effect of diet on third stage larvae of 542
HALL, J. E. Some helminth parasites of rodents from localities in Maryland and Kentucky 640
HALLMAN, F. A. Esterase activity in *Endamoeba histolytica* 325
HARFENIST, MORTON (see Mann, Harfenist and de Beer) 575
HARGIS, WILLIAM J., JR. Monogenetic trematodes of Gulf of Mexico fishes. Part II. The superfamily Gyrodactyloidea (Continued) 185
HARGIS, WILLIAM J., JR. A new species of Benedenia (Trematoda: Monogenea) from *Girella nigricans*, the opaleye 48
Heartworms, in New Jersey cats and dogs 637
HEDRICK, ROBERT M. A trypanosome from the big brown bat, *Eptesicus fuscus fuscus* (Beauvois), in Minnesota 629
Helminths, intestinal, treatment of in cat and dog 637
Helminths, of Louisiana and Panama fishes 587
Helminths, in New Jersey cats and dogs 637
Helminth-borne salmon poisoning 125
Helminth parasites, of Maryland and Kentucky rodents 640
Helminth parasites, of Oregon fur-bearers 637
HENDRICKS, JOHN W. (see Rigdon and Hendricks) 511
HERRICK, C. A. (see Shumard, Herrick and Pope) 542
Heterophyid trematodes, Egyptian 374
Hexamastix (Protozoa), two new species of from lizards 1
HITCHCOCK, DOROTHY J. The life cycle of *Isospora felis* in the kitten 383
HODES, J. R. (see Hall, Sonnenberg and Hodes) 640
HOFFMAN, GLENN L. Notes on the life cycle of *Fibricola cratera* (Trematoda: Strigeida) 327
HOLLING, JOAN *Isospora buteonis* Henry in the goshawk (*Accipiter gentilis*) 638
HONIGBERG, BRONISLAW M. Structure and morphogenesis of two new species of *Hexamastix* from lizards 1
HOOGSTRAAL, HARRY Notes on African *Haemaphysalis* ticks. I. The Mediterranean-littoral hedgehog parasite *H. erinacei* Pavesi, 1884 (Ixodoidea, Ixodidae) 221
HOOGSTRAAL, HARRY Notes on African *Haemaphysalis* ticks. II. The ground-squirrel parasites, *H. calcarata* Neumann, 1902, and *H. houyi* Nuttall and Warburton, 1915 (Ixodoidea, Ixodidae) 361
HOOGSTRAAL, HARRY (see Theiler and Hoogstraal) 245
HOPKINS, SEWELL H. (see Menzel and Hopkins) 333
Hymenolepidid cestodes, occurrence and distribution of in shrews 566
Hymenolepidid cestodes, from shrews 74
Hymenolepis (Cestoda), in North American shrews 167
Hymenolepis virilis (Cestoda), new species from *Sorex trowbridgei* 270
In Memoriam: Henry Ellsworth Ewing 217
Infula macrophallus (Cestoda), new species from *Himantopus mexicanus* 291

Isospora buteonis (Protozoa), in *Accipiter gentilis* 638
Isospora felis (Protozoa), life cycle of in kitten 383
IVENS, VIRGINIA (see Levine, Ivens and Kruidenier) 623
Ixodes kohlsi (Acarina), new species from Australia 18
JACOBS, LEON Observations on toxoplasmosis in dogs 353
JAMESON, E. W., JR. A summary of the genera Myobiidae (Acarina) 407
JEFFERY, GEOFFREY M. (see Young, Eyles, Burgess and Jeffery) 315
JOHNSON, F. R. "Aerosol OT 100%," a wetting agent for molluscacides 553
JUDD, W. W. A collection of fleas from the vicinity of Fort Simpson, Northwest Territories, Canada 441
KELLEY, GEORGE W., JR. The daily egg production of *Haemonchus contortus* (Nematoda) in a calf 218
KERR, K. B. Age of chickens and the rate of maturation of *Ascaridia galli* 233
KHABIR, PARVIZ A. Glucose consumption of *Plasmodium hexamerium* 595
KLINK, GERALD E. Ingestion of *Trichuris trichiura* ova by *Balantidium coli* 634
KLINK, GERALD E. (see Burrows and Klink) 56
Klossia (Protozoa), two new species of 623
Klossiella equi (Protozoa), correction 643
Klossiella equi (Protozoa), new species from *Equus asinus* 285
KNAPP, STUART E. An apparent human case of myiasis by the horn fly, *Siphona irritans* 324
Knemidokoptes pilae (Acarina), variation in 642
KNIGHT, ROBERT A. The life-histories of *Allassogonoporus vespertilionis* Macy and *Acanthatrium oregonense* Macy (Trematoda: Lecithodendriidae) 248
KOHLS, GLEN M. Two new species of ticks from North Borneo (Acarina: Ixodidae) 312
KRAUSE, A. C. Toxoplasma in tissues of man and pets 545
KRUIDENIER, FRANCIS J. (see Levine, Ivens and Kruidenier) 623
KUNTZ, ROBERT E. Susceptibility studies in schistosomiasis. IV. Susceptibility of wild mammals to infection by *Schistosoma haematobium* in Egypt, with emphasis on rodents 467
KUNTZ, ROBERT E. (see Martin and Kuntz) 374
LANDERS, EARL J. *Eimeria punctata* n. nov. for *Eimeria honessi* Landers, 1952, preoccupied 115
LEE, ROBERT D. (see Ryckman, Lindt, Spencer and Lee) 280
LEE, SHERIDAN H. The mode of egg dispersal in *Physaloptera phrynosoma* Ortlepp (Nematoda: Spiruroidea), a gastric nematode of Texas horned toads, *Phrynosoma cornutum* 70
LEHMANN, DONALD L. A new host record for *Trypanosoma ambystomae* with the description of an additional morphological type of the parasite 552
LEIGH, W. HENRY The morphology of *Gigantobilharzia huttoni* (Leigh), 1953) an avian schistosome with marine dermatitis-producing larvae 262
Leishmaniasis, in golden hamster 603
LELAND, S. E., JR. (see Drudge, Leland, Wyant and Elam) 505
LEVINE, NORMAN D. Two new species of *Klossia* (Sporozoa: Adeleidae) from a deer mouse and a bat 623
LEVINE, NORMAN D. A punched card system for filing parasitological bibliography cards 343
LI, S. Y. (see Lindquist and Li) 194
Life history of:
Acanthatrium oregonense (Trematoda) 248
Allassogonoporous vespertilionis (Trematoda) 248
Amphiacantha attenuata (Protozoa) 443
Amphiacantha ovalis (Protozoa) 443
Fibricola cratera (Trematoda) 327
Isospora felis (Protozoa) 383
Oochoristica deserti (Cestoda) 424
LINDQUIST, WILLIAM D. Some nematodes of rats from Guam, M. I. and notes on a species of *Rictularia* 194
LINDT, CHESTER, C. (see Ryckman, Lindt, Spencer and Lee) 280
LOCKER, BETTY The identification of *Taenia tenuicollis* Rudolphi, 1819, in North America 51
LUNDAHL, WALTER S. Notes on collecting trematode-infected Amnicolidae in deep waters 442
LUTTERMOSER, GEORGE W. Studies on the chemotherapy of experimental schistosomiasis. III. Harvest of *Schistosoma mansoni* cercariae by forced nocturnal emergence from *Australorbis glabratus* 201
LYSENKO, MICHAEL G. (see Malewitz and Lysenko) 330
MACEDO, D. G. (see Pellegrino and Macedo) 329
MCLINTOCK, J. (see Stirrat, McLintock, Schwindt and Depner) 398
MCMULLEN, DONALD B. (see Bauman, Berrios-Duran and McMullen) 298

MALAKATIS, GEORGE M. (see Kuntz and Malakatis) 467
MALANGA, CHRISTINE M. (see Cuckler and Malanga) 302
MALEWITZ, THOMAS D. Incidence of *Enterobius vermicularis* in 535 Puerto Rican children 330
MANN, PHILLIP H. Additional information pertaining to the incidence of heartworms and intestinal helminths in stray cats and dogs in Bergen County, northern New Jersey 637
MANN, PHILLIP H. The effectiveness of piperazine citrate against intestinal helminths of the cat and dog 575
MANN, PHILLIP H. Observations on the experimental transfer of the microfilariae of *Dirofilaria immitis* to the mouse, rat, and the chick embryo 218
MANWELL, REGINALD D. (see Khabir and Manwell) 595
MANWELL, REGINALD D. (see Okpala and Manwell) 65
MARGOLIS, EMMANUEL An unusual case of Schistosomiasis with special epidemiological aspects 538
MARGOLIS, LEO *Corynosoma hadweni* Van Cleave a probable synonym of *C. wegeneri* Heinze (Acanthocephala) 326
Maritrema (Trematoda), notes on with description of two new species 533
MARTIN, W. E. Some Egyptian heterophyid trematodes 374
MELENEY, HENRY E. (see Moore and Meleney) 235
MELTON, MARJORIE L. (see Jacobs, Melton and Cook) 353
MENZEL, R. WINSTON The growth of oysters parasitized by the fungus *Dermocystidium marinum* and by the trematode *Bucephalus cuculus* 333
MEYERS, H. F. Physical observations on *Echinococcus* eggs, part I 548
MICHAELSON, J. B. (see Hallman, DeLamater and Michaelson) 325
MILLEMAN, RAYMOND E. Studies on the life-history and biology of *Oochoristica deserti* n. sp. (Cestoda: Linstowiidae) from desert rodents 424
MIZELLE, JOHN D. (see Wood and Mizelle) 115
Molluscacides, wetting agent for 553
Monogenetic trematodes, of Gulf of Mexico fishes 185
MOORE, DONALD V. Development of *Schistosoma mansoni* in the peritoneal cavity of mice 235
MOORE, DONALD V. Sexual anomalies in the male *Schistosoma japonicum* (Formosan strain) 104
MOORE, DONALD V. (see Sandground and Moore) 109
MORSE, ROGER A. Larval nematode recorded from honeybee *Apis mellifera* L. 553
Mouse restraining case, description of 328
Multiceps packi (Cestoda), anatomical features of 149
Multiceps serialis (Cestoda), huge cyst of in black-tailed jackrabbit 114
Muscina sp. (Insecta), in myiasis in a child 552
Mycetomorpha vancouverensis (Crustacea), re-discovery of 321
Myobiidae (Acarina), summary of genera of 407
Myonyssus (Acarina), including new species 179
Myxosporidia (Protozoa), in fish 511
NEILAND, KENNETH A. The helminth fauna of Nicaraguia I. A new genus and species of cestode (Dilepidinae) from the hummingbird, *Phaeochroa cuvierii roberti* 495
NEILAND, KENNETH A. (see Senger and Neiland) 637
NELSON, W. A. Artificial feeding of certain ectoparasites through membranes 635
Nematodes, of rats from Guam 194
Nematopsis ostrearum (Protozoa), host-parasite relations of 89
Nematopsis prytherchi (Protozoa), host-parasite relations of 89
Neoechinorhynchus cristatus (Acanthocephala), in eastern North America 323
NESSLINGER, CARLITA, L. The incidence of opalinid infusorians in two species of tadpoles 640
New genera (indicated*) and new species (Volume 41, 1955)
Amphiacantha attenuata Stubblefield 454
Amphiacantha ovalis Stubblefield 454
Ancyrocephalus balisticus Hargis 185
Ancyrocephalus felis Hargis 186
**Archemyobia inexpectatus* Jameson 407
**Arostillina reticulata* Neiland 496
Benedenia girellae Hargis 48
Bothriocephalus sciuri Self and Esslinger 256
Bucephaloides trichiuri Sogandares-Bernal 587
Euschöngastia finleyi Crossley 289
Fellodistomum mendezi Sogandares-Bernal 587
Haemaphysalis traubi Kohls 313

Haemogregarina achiri Saunders 174
Hamatopeduncularia bagre Hargis 188
Haploparaxis polystictae Schiller 79
Hexamastix crassus Honigberg 7
Hexamastix kirbyi Honigberg 2
Hymenolepis arctica Schiller 81
Hymenolepis virilis Voge 270
Infula macrophallus Coil 292
Ixodes audyi Kohls 313
Ixodes kohlsi Arthur 18
Klossia perplexens, Levine, Ivens and Kruidenier 623
Klossia variabilis Levine, Ivens and Kruidenier 623
Klossiella equi Seibold and Thorson 287
Maritrema glandulosa Coil 534
Maritrema patulus Coil 535
Myonyssus montanus Furman and Tipton 180
Neochasmus ictaluri Sogandares-Bernal 587
Oochoristica deserti Millemann 426
**Otopheidomenis zalelestes* Treat 555
Perezia fumiferanae Thomson 417
Pseudohaliotrema carbunculus Hargis 189
**Steptolaelaps heteromydis* Furman 521
Stictodora tridactyla Martin and Kuntz 374
NEWTON, WALTER L. The establishment of a strain of *Australorbis glabratus* which combines albinism and high susceptibility to infection with *Schistosoma mansoni* 526
NORMAN, LOIS Flocculation test in sera from hogs experimentally and naturally infected with *Trichinella spiralis* 162
NORMAN, LOIS (see Sadun and Norman) 476
Nycteribiid (Insecta), new to Illinois 322
ODLAUG, THERON O. The quantitative determination of glycogen in some parasites of Amphibia 258
OKPALA, IKEDNACHUKU Chemotherapy of avian malarias: III. Trial of certain standard antimalarials on *Plasmodium hexamerium* and *P. elongatum* malaria in ducks 65
Oncomelania spp. (Mollusca), rearing of 109
Oochoristica deserti (Cestoda), new species from desert rodents 424
Opalinid infusorians, in tadpoles 640
Orchopeas howardi howardi (Insecta), eight-legged specimen of 636
Ornithodoros pavimentosus (Acarina), identity of 245
Ornithodoros puertoricensis (Acarina), biology of 76
Ornithodoros savignyi (Acarina), identity of 245
ORR, P. E., JR. (see Sprague and Orr) 89
Otopheidomenis zalelestes (Acarina), new species from moths of the genus *Zale* 555
PADILLA, GEORGE M. (see Knapp, Padilla and Philips) 324
PAN, CHIATUNG (see Soriano Lleras and Pan) 635
Parasites of Amphibia, glycogen in 258
Parasites of *Canis latrans* in Kansas 325
Parasites from *Nasua narica* 441
Parasites of New Mexico mountain sheep 583
Parasitological bibliography, punched card system for 343
PARKER, DALE (see Grundmann, Parker and Stagg) 114
PARMALEE, PAUL W. A nycteribiid fly new to Illinois 322
PELLEGRINO, J. A simplified method for the concentration of cercariae 329
Perezia fumiferanae (Protozoa), new species from *Choristoneura fumiferana* 416
PHILIP, CORNELIUS B. There's always something new under the "parasitological" sun (the unique story of helminth-borne salmon poisoning disease) 125
PHILIPS, F. M. (see Knapp, Padilla and Philips) 324
Physaloptera sp. (Nematoda), in man in Colombia 635
Physaloptera phrynosoma (Nematoda), egg dispersal in 70
Plasmodium elongatum (Protozoa), chemotherapy of 65
Plasmodium hexamerium (Protozoa), chemotherapy of 65
Plasmodium hexamerium (Protozoa), glucose consumption of 595
Plasmodium vivax (Protozoa), immunity of negroes to 315
POPE, A. L. (see Shumard, Herrick and Pope) 542

Porrocaecum decipiens (Nematoda), early development of 321
PRATT, IVAN (see Knight and Pratt) 248
QUAY, M. B. Trypanosomiasis in the collared lemming, *Dicrostonyx torquatus* (Rodentia) 562
RAUSCH, ROBERT (see Voge and Rausch) 566
REDDING, R. W. (see Norman, Sadun, Redding and Cooperrider) 162
Rhabditis strongyloides (Nematoda), oxygen consumption of related to oxygen tension 613
Rictularia (Nematoda), notes on a species of 194
RIGDON, R. H. Myxosporidia in fish in waters emptying into Gulf of Mexico 511
RITTERSON, ALBERT L. Studies on leishmaniasis in the golden hamster 603
ROBINSON, EDWIN J., JR. A description of attempts to infect mosquitoes with avian filarial worms 176
ROBINSON, EDWIN J., JR. Observations on the epizootiology of filarial infections in two species of the avian family Corvidae 209
ROOS, JOHN C. (see Ryckman and Roos) 639
RYCKMAN, RAYMOND E. Additional collections of ticks from Southern California 280
RYCKMAN, RAYMOND E. Chiggers associated with squamous papillomata on a *Perognathus* mouse 639
SADUN, ELVIO H. The use of an acid soluble protein fraction in the flocculation test for the diagnosis of trichinosis 476
SADUN, EVIO H. (see Norman, Sadun, Redding and Cooperrider) 162
SANBORN, WARREN R. (Microagglutination reactions of *Trichomonas suis*, *T.* sp., and *T. foetus* 295
SANDGROUND, J. H. Notes on the rearing of *Oncomelania* spp. in the laboratory 109
SANJEAN, JOHN An eight-legged flea, *Orchopeas howardi howardi* (Baker) 636
SAUNDERS, DOROTHY CHAPMAN The occurrence of *Haemogregarina bigemina* Laveran and Mesnil and *H. achiri* n. sp. in marine fish from Florida 171
SCHILLER, EVERETT L. Studies on the helminth fauna of Alaska. XXIII. Some cestode parasites of eider ducks 79
SCHILLER, EVERETT L. Studies on the helminth fauna of Alaska. XXVI. Some observations on the cold-resistance of eggs of *Echinococcus sibiricensis* Rausch and Schiller, 1954 578
Schistosoma haematobium (Trematoda), susceptibility of wild mammals to in Egypt 467
Schistosoma japonicum (Trematoda), sexual anomalies in male of 104
Schistosoma mansoni (Trematoda), albino *Australorbis glabratus* strain highly susceptible to 526
Schistosoma mansoni (Trematoda), forced nocturnal emergence of cercariae 201
Schistosoma mansoni (Trematoda), in peritoneal cavity of mice 235
Schistosoma mansoni (Trematoda), protective barrier against 298
Schistosome cercariae, device for exposing mice to 641
Schistosomiasis, chemotherapy of 201
Schistosomiasis, unusual case of 538
SCHWINDT, G. W. (see Stirrat, McLintock, Schwindt and Depner) 398
SCOTT, D. M. On the early development of *Porrocaecum decipiens* 321
SCOTT, J. ALLEN Preparation and use of glychrogel mounting medium 219
SEIBOLD, H. R. *Klossiella equi*:—Correction 643
SEIBOLD, H. R. *Klossiella equi* n. sp. (Protozoa: Klossiellidae) from the kidney of an American jack 285
SELF, J. TEAGUE A new species of biothriocephalid cestode, from the fox squirrel (*Sciurus niger* Linn.) 256
SENGER, CLYDE M. Helminth parasites of some fur-bearers of Oregon 637
SENGER, CLYDE M. Observations on cestodes of the genus *Hymenolepis* in North American shrews 167
SHUMARD, R. F. The effect of diet on the length of third stage larvae produced by adult *Haemonchus contortus* harbored by lambs 542
Siphona irritans (Insecta), bacteria associated with 398
Siphona irritans (Insecta), in human myiasis 324
Siphonaptera (Insecta), technique for whole mounts of 322
SMITH, WILLIAM W. The abundance and distribution of the ectoparasites of the house mouse in Mississippi 58
SOGANDARES-BERNAL, FRANKLIN Some helminth parasites of fresh and brackish water fishes from Louisiana and Panama 587
SONNENBERG, B. (see Hall, Sonnenberg and Hodes) 640
SORIANO LLERAS, ANDRÉS Two cases of *Physaloptera* infection in man from Colombia 635
SPENCER, DEAN (see Ryckman, Lindt, Spencer and Lee) 280

SPRAGUE, VICTOR *Nematopsis ostrearum* and *N. prytherchi* (Eugregarinna: Porosporidae) with special reference to the host-parasite relations 89
STAGG, GORDON (see Grundmann, Parker and Stagg) 114
Stephanurus dentatus (Nematoda), transmission by *Eisenia foetida* 157
STIREWALT, M. A. Description of a plastic mouse restraining case 328
STIRRAT, J. H. Bacteria associated with wild and laboratory-reared horn flies, *Siphona irritans* (L.) (Diptera: Muscidae) 398
STOLL, NORMAN R. Zoological nomenclatorial notes 318
STUBBLEFIELD, JOSEPH W. The morphology and life history of *Amiphiacantha ovalis* and *A. attenuata*, two new haplosporidian parasites of gregarines 443
STUNKARD, HORACE W. Henry Ellsworth Ewing (1883–1951) 217
Taenia saginata (Cestoda), abnormal proglottid of 56
Taenia tenuicollis (Cestoda), identification of in North America 51
THEILER, GERTRUD The identity of *Ornithodoros savignyi* (Audoin, 1827) and *O. pavimentosus* Neumann, 1901 (Ixodoidea, Argasidae) 245
THOMPSON, JOHN H., JR. (see Barr and Thompson) 552
THOMSON, H. M. *Perezia fumiferanae* n. sp., a new species of Microsporidia from the spruce budworm *Choristoneura fumiferana* (Clem.) 416
THORSON, RALPH E. (see Seibold and Thorson) 285
Ticks (Acarina), from southern California 280
Ticks (Acarina), two new species of from North Borneo 312
Ticks (Acarina), unusual distribution records of in Utah 198
TIPTON, VERNON J. (see Furman and Tipton) 179
TODD, A. C. (see Johnson and Todd) 553
TONN, ROBERT J. The white sucker, *Catostomus commersonii* (Lacepede), a new host of *Caryophyllaeus terebans* (Linton, 1893) 219
Toxoplasma (Protozoa), in tissues 545
Toxoplasmosis, in dogs 353
TRAVIS, B. V. (see SanJean and Travis) 636
TRAYOR, WILLIAM R. (see Atchley, Traylor and Weathersbee) 273
TREAT, ASHER E. An ectoparasite (Acarina: Mesostigmata) from moths of the genus *Zale* 555
Trematode-infected Amnicolidae, collecting in deep waters 442
Trichinella spiralis (Nematoda), effects of cortisone on 498
Trichinella spiralis (Nematoda), flocculation test in hogs 162
Trichinella spiralis (Nematoda), production of immunity to 483
Trichinella spiralis (Nematoda), reproductive systems of 40
Trichinosis, diagnosis of 476
Trichobilharzia physellae (Trematoda), germinal development in sporocysts of 24
Trichomonas sp. (Protozoa), microagglutination reactions of 295
Trichomonas foetus (Protozoa), microagglutination reactions of 295
Trichomonas suis (Protozoa), microagglutination reactions of 295
Trichostrongylus axei (Nematoda), experimental host relationships of 505
Trichuris trichiura (Nematoda), ingestion of ova of by *Balantidium coli* 634
TROMBA, FRANCIS G. The rôle of the earthworm, *Eisenia foetida*, in the transmission of *Stephanurus dentatus* 157
Trypanosoma sp. (Protozoa), from *Eptesicus fuscus fuscus* 629
Trypanosoma ambystomae (Protozoa), new host record for 552
Trypanosomiasis in *Dicrostonyx torquatus* 562
ULMER, MARTIN J. Notes on the morphology and host-parasite specificity of *Fibricola cratera* (Barker and Noll, 1915) Dubois, 1932 (Trematoda: Diplostomatidae) 460
VAN DER WOUDE, ANNE (see Cort, Ameel and Van der Woude) 24
VOGE, MARIETTA *Hymenolepis virilis* n. sp., a cestode from the shrew *Sorex trowbridgei* in California 270
VOGE, MARIETTA Notes on four hymenolepidid cestodes from shrews 74
VOGE, MARIETTA Occurrence and distribution of hymenolepidid cestodes in shrews 566
WEATHERSBEE, A. A. (see Atchley, Traylor and Weathersbee) 273
WENRICH, D. H. (see Stunkard, Bishopp and Wenrich) 217
WOOD, RAYMOND A. Another case of *Ascaridia galli* in a hen's egg 115
WU, LIANG-YU Studies on *Trichinella spiralis*. I. Male and female reproductive systems 40
WYANT, ZAE N. (see Drudge, Leland, Wyant and Elam) 505
YOUNG, MARTIN D. Experimental testing of the immunity of negroes to *Plasmodium vivax* 315
YUNKER, CONRAD E. Apparent extrinsic variation in *Knemidokoptes pilae* Lavoipierre and Griffiths, 1951 (Acarina: Sarcoptiformes) 642
Zoological nomenclatorial notes 318

INDEX TO DECEMBER SUPPLEMENT, 1955

(No. 6, Section 2)

(* refers to page; other figures to abstract number)

ABADIE, S. H. (see Jones, Swartzwelder and Abadie) 124, 125
ACKERT, J. E. Some problems in parasite control in Southern Brazil 116
ALICATA, J. E. Effects of sodium borate on swine nodular-worm (*Oesophagostum dentatum*) infective larvae in soil 129
Allassogonoporus (Trematoda), a restudy of 49
Allocreadium (Trematoda) morphology of adult and miracidium of species of 81
Amebae, measuring brightness of individual 4
Amebiasis, asymptomatic, treatment of 2
AMEEL, D. J. (see Hsü and Ameel) 37
American Society of Parasitologists:
Program, 30th annual meeting *1
Author index *11
Abstracts *13
Officers for 1955 ..... *51
Former officers *52
Former meeting places *54
In Memoriam *55
Amidostomum anseris (Nematoda), life history of 109
Ancyclostoma caninum (Nematoda), extractions of and coagulation of dog's blood 103
Ancyclostoma caninum (Nematoda), proteolytic activity in extracts of esophagus of 102
ANDERSON, R. C. Black flies (Simuliidae) as vectors of *Ornithofilaria fallisensis* Anderson, 1954 114
ANDERSON, R. C. (see Fallis, Anderson and Bennett) 24
Anopheles (Insecta) larvae, tergal plates of in identification 68
Argasid ticks (Acarina), as possible tularemia vectors 70
Ascaris (Nematoda), treatment of 99
Ascaris lumbricoides suum (Nematoda), *in vitro* cultures of larvae of 123
ATCHLEY, F. O. Current status of intestinal parasitism of man in eastern Kentucky 115
Azygia sebago (Trematoda), life-cycle of 78
BALL, G. H. (see Chao and Ball) 66
BALL, G. H. (see Pitts and Ball) 123
BARBEHENN, K. R. (see Kirner, Barbehenn and Travis) 7
BECKER, E. R. Size of oocyst of *Eimeria brunetti* and *E. necatrix* 19
BENNETT, G. F. (see Fallis, Anderson and Bennett) 24
BETTS, G. D. (see Cantrell and Betts) 11
Blackhead, blood-induced 6
Blood parasites, of *Microtus pennsylvanicus* 7
BOODISH, W. (see Goodchild and Boodish) 92
BRIGGS, N. T. Precipitates on the larvae of *Litomosoides carinii* in sera of repeatedly infected white rats 75
BROOKE, M. M. An intestinal parasite survey of the Korean prisoner of war camp located on Koje Island 1
BUNDE, C. (see Ehrenford, Burch and Bunde) 93
BURCH, G. (see Ehrenford, Burch and Bunde) 93
BURGDORFER, W. Experimental studies on argasid ticks as possible vectors of tularemia 70
BYRD, ELON E. Notes on the anatomy of *Ligula intestinalis* (Linnaeus, 1758), a pseudophyllidean cestode of birds 52
CABLE, R. M. Affinites of the trematode family Didymozoidae 43
Callitroga hominivorax (Insecta), clinical effects of on quinea pigs 69
CANTRELL, W. Observations on the immunity to *Trypanosoma equiperdum* induced by treatment with oxophenarsine 11
CARVER, R. K. (see Goldman and Carver) 3
Centrorhynchus (Acanthocephala), from Egyptian birds 85
Cestodes, lipid metabolism in 57
CHANG, P. (see Read and Chang) 29
CHAO, J. Quantitative microinjection of mosquitoes 66
CHAO, J. Sterile microdissection and isolation of malarial oocysts from the mosquito stomach 67

Choanotaenia iola (Cestoda), embryology and histology of 63
Chorioptes bovis (Acarina), life cycle of 72
CIORDIA, H. Immunity to *Hydatigera taeniaeformis* affected by radiation of the host 55
CIORDIA, H. (see Jones and Ciordia) 84
CLARK, D. T. (see Levine and Clark) 108
CLARK, D. T. (see Levine, Clark and Hanson) 82
CLARK, G. M. The development of *Hepatozoon sciuris* Coles, 1914 in two parasitic laelaptid mites 17
CLARK, G. M. (see Herman and Clark) 16
CMEJLA, H. E. The therapeutic value of fumagillin in the control of *Nosema apis* Zander in the honey bee 28
Coccidia, avian, effect of nicarbazin on 22
Coccidia, cecal, effect on muscular ability of chickens 21
Coccidiosis, cecal, effect of on digestive tract motility in fowl 20
COKER, C. M. Cellular factors in acquired immunity to *Trichinella spiralis* as indicated by cortisone treatment of mice 121
COEMAN, M. T. (see Schneider, Radke and Coleman) 38
COLEMAN, N. (see Eyles and Coleman) 25
COWAN, A. B. Development of megaloschizonts of *Leucocytozoon simondi*, Mathis and Léger, 1910, and some host reactions 74
COWAN, A. B. Some preliminary observations on the life history of *Amidostomum anseris* Zeder, 1800 109
Crassiphiala bulboglossa (Trematoda), life-cycle and development of 32
CUCKLER, A. C. The effect of nicarbazin on avian coccidia 22
DAUGHERTY, J. W. The effect of fasting and alloxan treatment of the host on glycogen gradient in *Hymenolepis diminuta* 58
DAUGHERTY, J. W. Glycogen synthesis in *Hymenolepis diminuta* 61
DAUGHERTY, J. W. (see Warren and Daugherty) 57
DEGIUSTI, D. L. The occurrence of a protostrongylid nematode in the meninges of Michigan deer 105
DEGIUSTI, D. L. (see Kingston and Degiusti) 80
Dendritobilharzia sp. (Trematoda), in swan 82
Didymozoidae (Trematoda), affinities of 43
Digenea, nervous system of some 80
Dinobdella ferox (Hirudinea), from Borneo and Malaya 64
Diplostomum (baeri?) (Trematoda), life-cycle of 31
DIXON, C. (see Hunter, Kemp, Smalley, Wilkins and Dixon) 39
DROPKIN, V. H. Determination of the phosphorus content of golden nematode and root-knot nematode 85
DRUMMOND, R. O. An apparatus for the continuous collecting of ectoparasites from nests of small animals 88
DUNN, M. C. Studies on the germ cell cycle of an ochetosomatid trematode. I. Gametogenesis in *Neorenifer* 44
Echinococcosis, on St. Lawrence Island, Alaska 54
Echinococcus sibiricensis (Cestoda), studies on, in mice 53
Echinolaelaps echninus (Acarina), food preferences and longevity of 71
Ectoparasites, apparatus for continuous collection of 88
EHRENFORD, F. Further observations on phthalofyne as a trichuricide 93
Eimeria bovis (Protozoa), treatment of, in calves 18
Eimeria brunetti (Protozoa), size of oocyst of 19
Eimeria necatrix (Protozoa), size of oocyst of 19
Entamoeba histolytica (Protozoa), cultivation of 3
Entamoeba histolytica (Protozoa), virulence studies with strain of 5
Enterobius vermicularis (Nematoda), diagnosis of 101
ESSLINGER, J. H. Studies on the clinical effects of the screw-worm, *Callitroga hominivorax* (Coquerel) on guinea pigs 69
EVANS, A. S. Serologic reactions in *Schistosoma mansoni* infections: Ionographic fractionation of sera of mice with progressive disease 36
EVELETH, D. F. (see Shumard and Eveleth) 100, 106
EVELETH, D. F. (see Shumard, Schipper and Eveleth) 90
EYLES, D. E. Relationship of size of inoculum to time to death in mice infected with *Toxoplasma gondii* 25

FALLIS, A. M. Further observations on the transmission and development of *Leucocytozoon simondi* M. & L. 24
FARMER, J. N. (see Becker, Pattillo, Farmer and Van Doorninck) 19
FARRAR, C. L. (see Cmejla, Herrick and Farrar) 28
Fasciola hepatica (Trematoda), anomalies in 77
Fasciola hepatica (Trematoda), immunity to, in rabbits 42
FEDER, W. A. Further studies on plant-parasitic nematodes maintained in altered oxygen tensions 122
FELDMESSER, J. (see Feder and Feldmesser) 122
Filarial parasites, in Malaya 119
FITZGERALD, P. R. Experimental infections of the bovine genital tract with trichomonads from swine 15
FITZGERALD, P. R. Experimental treatment of bovine trichomoniasis in bulls with acriflavine and other agents 14
FITZGERALD, P. R. (see Hammond, Shupe, Johnson, Thorne and Fitzgerald) 18
FOSTER, W. B. A comparison of the amino acid constituents and the transaminase activity of *Raillietina cesticillus* and *Hymenolepis diminuta* 59
FREED, J. E. (see Young and Freed) 99
FRICK, L. P. Parasitological studies in the Far East. XV. A preliminary survey for intestinal parasitism in southern Formosa 126
FRICK, L. P. (see Moon, Otori, Williams, Frick and Ritchie) 47
FRICK, L. P. (see Williams, Moon, Otori, Frick and Ritchie) 48
FRYE, W. W. (see Brooke, Swartzwelder, Payne, Weinstein and Frye) 1
GIBSON, C. L. Parasitological and serological studies on the prevalence of canine toxoplasmosis in Memphis, Tennessee 27
GILFORD, J. H. A restudy of the genus *Allassogonoporus* (Olivier, 1938) Macy, 1940 49
GOLDMAN, M. Cultivation of *Entamoeba histolytica* from trophozoites in fecal suspensions kept at 25° C. for 4 days 3
GOLDMAN, M. Measuring the brightness of individual amebae exposed to fluorescein-tagged antibodies 4
GOODCHILD, C. G. Establishment of *Trichinella spiralis* infections in Thiry-Vella fistularized rats 92
GREENBERG, J. (see Taylor and Greenberg) 5
Haemonchosis in lambs, effect of rations on 107
Haemonchus contortus (Nematoda), nutritional and physiological changes in lambs infected by 106
HAMMOND, D. M. Sulfaquinoxaline and sulfamerazine in the treatment of experimental infections with *Eimeria bovis* in calves 18
HAMMOND, D. M. (see Fitzgerald, Johnson, Thorne and Hammond) 15
HAMMOND, D. M. (see Fitzgerald, Thorne, Johnson and Hammond) 14
Hannemania (Acarina), penetration of host tissue by 87
HANSON, L. E. (see Levine, Clark and Hanson) 82
HEALY, G. R. Anomalies in *Fasciola hepatica* 77
HEALY, G. R. Studies on immunity to *Fasciola hepatica* in rabbits 42
HEIMLICH, R. (see Melvin, Sadun and Heimlich) 104
Helminthological problems, in a zoological park 117
Helminths, enterotome for removal of, from large mammal gastrointestinal tracts 90
HEMPHILL, E. C. (see Atchley, Hemphill and Hunt) 115
Hepatozoon (Protozoa), in *Sciurus carolinensis* 16
Hepatozoon sciuris (Protozoa), development of, in two laelaptid mites 17
HERMAN, C. M. Further observations on occurrence of *Hepatozoon* in gray squirrels (*Sciurus carolinensis*) 16
HERRICK, C. A. (see Cmejla, Herrick and Farrar) 28
HERRICK, C. A. (see Levine and Herrick) 21
HERRICK, C. A. (see Schildt and Herrick) 20
HOFFMAN, G. L. Life-cycle of *Diplostomum* (*baeri?*) (Trematoda: Strigeida) 31
HOFFMAN, G. L. Studies on the life-cycle and development of *Crassiphiala bulboglossa* (Trematoda: Strigeida) 32
Hookworm infections, reliability of egg counts in 104
HOUGHTALING, D. G. (see Radke, Schneider and Houghtaling) 33
HSÜ, H. F. Intradermal reactions to *Schistosoma japonicum* and *S. mansoni* antigens in schistosome dermatitis cases 37
HUFF, C. G. "Parasitism and parasitology" 73

HULL, W. B. Nymphal stages of *Pneumonyssus simicola* (Acarina: Halarachnidae) 86
HUNT, D. W. (see Atchley, Hemphill and Hunt) 115
HUNTER, G. W., III. Studies on schistosomiasis. XII. Results of experiments on screening potential protective ointments on mice against cercariae of *Schistosoma mansoni* 39
Hydatigera taeniaeformis (Cestoda), immunity to, affected by radiation of host 55
Hydatigera taeniaeformis (Cestoda), transfaunation of adult to intermediate host 84
HYLAND, K. E., JR. Penetration of host tissue and host reaction to chigger mites of the genus *Hannemania* (Acarina: Trombiculidae) 87
Hymenolepis citelli (Cestoda), life cycle of 62
Hymenolepis diminuta (Cestoda), amino acid constituents and transaminase activity of 59
Hymenolepis diminuta (Cestoda), glycogen gradient in 58
Hymenolepis diminuta (Cestoda), glycogen synthesis in 61
Hymenolepis diminuta (Cestoda), *in vitro* fermentation of carbohydrates by 56
Intestinal parasites, treatment 99
JACHOWSKI, L. A. (see Price and Jachowski) 119
JACOBS, L. Immunity in murine toxoplasmosis 26
JACOBS, L. (see Melton and Jacobs) 30
JASKOWSKI, B. J. Some helminthological problems in a zoological park 117
JONES, A. W. Transfaunation of adult *Hydatigera taeniaeformis* to its intermediate host 84
JONES, A. W. (see Ciordia and Jones) 55
JONES, C. A. On the occurrence of certain high energy phosphate compounds in filariform larvae of *Strongyloides ratti* 124
JONES, C. A. On the occurrence of glycogen and phosphate esters in filariform larvae of *Strongyloides ratti* 125
JOHNSON, A. E. (see Fitzgerald, Johnson, Thorne and Hammond) 15
JOHNSON, A. E. (see Fitzgerald, Thorne, Johnson and Hammond) 14
JOHNSON, A. E. (see Hammond, Shupe, Johnson, Thorne and Fitzgerald) 18
JUMPER, J. R. (see Gibson and Jumper) 27
KAGAN, I. G. Preliminary studies on hemagglutination in schistosomiasis 45
KATES, K. C. Effect of two rations, differing primarily in protein, carbohydrate and crude fiber content, on experimental haemonchosis in lambs 107
KEMP, H. A. (see Hunter, Kemp, Smalley, Wilkins and Dixon) 39
KIHATA, M. (see Yokogawa, Oshima and Kihata) 50
KINGSTON, D. The nervous system of some Digenea 80
KIRNER, S. H. A summer survey of the blood parasites of two *Microtus pennsylvanicus* populations, Ithaca, N. Y. 7
KRUIDENIER, F. J. The gland complex of the cercaria of *Schistosoma mansoni* 79
KRUIDENIER, F. J. The structure and source of the pericercarial envelope (CHR), of *Schistosoma mansoni* 34
KUNTZ, R. E. "Schistosomiasis in Egypt" 89
LANDWER, V. (see Strandtmann and Landwer) 71
LAURIE, J. S. The *in vitro* fermentation of carbohydrate substrates by *Hymenolepis diminuta* and the action of some inhibitors 56
LEE, S. H. The morphogenesis of the female reproductive system of *Skrjabinoptera phrynosoma* Schulz, 1927, a gastric nematode of Texas horned toads *Phrynosoma cornutum* 111
Leishmania donovani (Protozoa), cytochemical observations on 29
Leucocytozoon simondi (Protozoa), development of megaloschizonts of 74
Leucocytozoon simondi (Protozoa), transmission and development of 24
LEVINE, L. A comparative study of the effects of cecal coccidia on the ability of Plymouth Rock and Leghorn chickens to do muscular work 21
LEVINE, N. D. Encephalitis in a swan due to *Dendritobilharzia* sp. 82
LEVINE, N. D. The relation of pasture rotation to acquisition of strongyline nematodes by sheep 108
Life history of:
Amidostomum anseris 109
Azygia sebago 78
Chorioptes bovis 72
Crassiphiala bulboglossa 32
Diplostomum (baeri?) 31
Hymenolepis citelli 62
Ophidascaris filaria 98
Toxascaris leonina 96
Toxocara cati 97

Ligula intestinalis (Cestoda), anatomy of 52
LINCICOME, D. R. Growth factor in normal rat serum from *Trypanosoma lewisi* 10
Litomosoides carinii (Nematoda), effect of previous infection on 112
Litomosoides carinii (Nematoda), precipitates on larva of, in rat sera 75
Litomosoides carinii (Nematoda), in white rats 113
MACDONALD, E. M. (see Olson, Scott and Macdonald) 113
MACDONALD, E. M. (see Scott, Macdonald and Olson) 112
McGHEE, R. B. Comparative susceptibility of erythrocytes from mammals and birds to infection by four species of avian malaria 23
McGUIRE, W. C. Blood-induced blackhead 6
McINTOSH, A. *Nematobothrium texomensis* n. sp. from a freshwater fish *Ictiobus bubalus* (Rafinesque) 83
MACKIEWICZ, J. S. Incidence studies on *Trypanosoma diemyctyli* Tobey, 1906 in *Diemyctylus v. viridescens* (Raf.) 8
MALANGA, C. M. (see Cuckler and Malanga) 22
Malaria, avian, susceptibility of bird and mammal erythrocytes to 23
Malarial oocysts, isolation of, from mosquito stomach 67
Malarial parasites, susceptibility of mosquitoes to 65
MANKAU, S. K. Studies on *Echinococcus sibiricensis* (Rausch and Schiller, 1954) in laboratory mice 53
MELTON, M. L. Repeated enhancement in virulence of a strain of *Toxoplasma* by passage in mice 30
MELTON, M. L. (see Jacobs and Melton) 26
MELVIN, D. M. Evaluation of the reliability of the dilution egg count and direct smear egg count in the quantitative determinations of hookworm infections 104
MELVIN, D. M. (see Sadun and Melvin) 101
MENZEL, M. Y. (see Short and Menzel) 41
MICKS, D. W. Factors influencing the susceptibility of mosquitoes to malarial parasites ... 65
Microfilariae, from birds 76
MILLER, J. H. (see Swartzwelder, Miller and Sappenfield) 127
MOON, A. P. Field-test of four molluscacides against *Oncomelania nosophora* in the terraced-hillside habitat 47
MOON, A. P. (see Frick and Moon) 126
MOON, A. P. (see Williams, Moon, Otori, Frick and Ritchie) 48
Mosquitoes, quantitative microinjection of 66
Nematobothrium texomensis (Trematoda), new species from *Ictiobus bubalus* 83
Nematodes, plant-parasitic, in altered oxygen tensions 122
Nematodes, plant parasitic, phosphorus content of 95
Nematodirus spathiger (Nematoda), nutritional and physiological changes in lambs infected by 106
Neorenifer (Trematoda), gametogenesis in 44
New species:
Nematobothrium texomensis (Trematoda) 83
Nippostrongylus muris (Nematoda), development of 110
Nippostrongylus muris (Nematoda), early migration and growth of 128
NORMAN, L. The storage and standardization of sera and reagents for the diagnosis of trichinosis by the bentonite flocculation test 94
NORMAN, L. (see Sadun and Norman) 91
Nosema apis (Protozoa), fumagillin in control of 28
Oesophagostomum dentatum (Nematoda), effect of sodium borate on larvae of 129
OGREN, R. E. Studies in embryology and histology of the robin tapeworm, *Choantaenia iola* Lincicome (Cyclophyllidea: Diplyidiinae), with description of the metachromatic glands in the onchosphere 63
OLIVER-GONZÁLEZ, J. (see Kagan and Oliver-González) 45
OLSON, L. J. Infection of white rats with the filarial worms of cotton rats 113
OLSON, L. J. (see Scott, Macdonald and Olson) 112
Oncomelania nosophora (Mollusca), molluscacides against 47
Oncomelania nosophora (Mollusca), molluscacides against juvenile 48
Ophidascaris filaria (Nematoda), life history of, in *Morelia argus* 98
Ornithofilaria fallisensis (Nematoda), Simuliidae as vectors of 114
OSHIMA, T. (see Yokogawa, Oshima and Kihata) 50
OTORI, Y. (see Moon, Otori, Williams, Frick and Ritchie) 47
OTORI, Y. (see Williams, Moon, Otori, Frick and Ritchie) 48

Paragonimus westermani (Trematoda), metacercariae of, maintained *in vitro* 50
Paragonimus westermani (Trematoda), respiration of 51
Parasite control in southern Brazil, problems in 116
Parasite survey, Korean prisoner of war camp 1
Parasites, of Amphibia 130
Parasites, poultry, in Egypt 118
Parasitism, intestinal, of man in Kentucky 115
Parasitism, intestinal, in southern Formosa 126
Parasitism and parasitology 73
PATTILLO, W. H. (see Becker, Pattillo, Farmer and Van Doorninck) 19
PAYNE, F. J. (see Brooke, Swartzwelder, Payne, Weinstein and Frye) 1
PETERS, L. E., JR. Morphology of the adult and the miracidium of a progenetic species of *Allocreadium* from water beetles of the family Dytiscidae 81
Piperazine citrate, anthelmintic in domestic animals 100
Piperazine citrate, treatment for human helminthiases 127
PITTS, T. D. Further studies on the *in vitro* culture of the larvae of *Ascaris lumbricoides suum* 123
Pneumonyssus simicola (Acarina), larval stages of 86
PRATT, HARRY D. The tergal plates of North American *Anopheles* larvae—their use in identification and phylogenetic studies (Diptera: Culicidae) 68
PRICE, D. L. Notes on animal filarial parasites in Malaya, with special reference to *Macaca cynomolgus* 119
Protostrongylid nematode, in Michigan deer 105
RADKE, M. G. Growth and development of *Schistosoma mansoni* in mice 33
RADKE, M. G. (see Schneider, Radke and Coleman) 38
Raillietina cesticillus (Cestoda), amino acid constituents and transaminase activity of 59
READ, C. P. Comparative studies on the physiology of trichomonad flagellates 12
READ, C. P. Cytochemical observation on cultured macrophages infected with *Leishmania donovani* 29
READ, C. P. Respiration of *Paragonimus westermani* 51
REID, W. M. Incidence of poultry parasites under different ecological and geographical conditions in Egypt 118
RITCHIE, L. S. (see Moon, Otori, Williams, Frick and Ritchie) 47
RITCHIE, L. S. (see Sasaki, Wykoff, Yokogawa and Ritchie) 2
RITCHIE, L. S. (see Williams, Moon, Otori, Frick and Ritchie) 48
ROBINSON, E. J., JR. Some microfilariae from birds, with a graphic demonstration of species differences 76
ROCHA, U. F. (see Ackert and Rocha) 116
SADUN, E. H. Studies on the susceptibility of hamsters to *Trichinella spiralis* 91
SADUN, E. H. The value of repeated examinations in the diagnosis of infections with *Enterobius vermicularis* 101
SADUN, E. H. (see Melvin, Sadun and Heimlich) 104
SAPPENFIELD, R. W. (see Swartzwelder, Miller and Sappenfield) 127
SASAKI, T. Treatment of asymptomatic amebiasis with atabrine in combination with carbasone and with chiniofon 2
SCHILDT, C. S. The effect of cecal coccidiosis on the motility of the digestive tract of the domestic fowl 20
SCHIPPER, I. A. (see Shumard, Schipper and Eveleth) 90
Schistosoma japonica (Trematoda), antigen, intradermal reactions to, in schistosome dermatitis cases 37
Schistosoma mansoni (Trematoda), assaying chemotherapeutic activity against 46
Schistosoma mansoni (Trematoda), gland complex of cercariae of 79
Schistosoma mansoni (Trematoda), growth and development of, in mice 33
Schistosoma mansoni (Trematoda), immunological reactive substance from 38
Schistosoma mansoni (Trematoda), penetration of host skin by cercariae of 35
Schistosoma mansoni (Trematoda), pericercarial envelope of 34
Schistosoma mansoni (Trematoda), protective ointments against cercariae of 39
Schistosoma mansoni (Trematoda), serologic reactions in infections of 36
Schistosomatium douthitti (Trematoda), chromosomes in parthenogenetic miracidia of ... 41
Schistosomatium douthitti (Trematoda), chromosomes and sex determination in 40
Schistosomiasis, in Egypt 89
Schistosomiasis, hemagglutination in 45
SCHNEIDER, M. D. Immunologically reactive substance from *Schistosoma mansoni* 38

SCHNEIDER, M. D. (see Radke, Schneider and Houghtaling) 33
SCHWINK, T. M. Use of organ egg counts in assaying chemotherapeutic activity against *Schistosoma mansoni* 46
SCOTT, J. A. The effect of previous infection on filarial worms transferred from one cotton rat to another 112
SCOTT, J. A. (see Olson, Scott and Macdonald) 113
SELF, J. T. (see McIntosh and Self) 83
SHORT, R. B. Chromosomes in parthenogenetic miracidia of *Schistosomatium douthitti* (Trematoda: Schistosomatidae) and their progeny in snails 41
SHORT, R. B. Chromosomes and sex determination in *Schistosomatium douthitti* (Trematoda: Schistosomatidae) 40
SHUMARD, R. F. A motor-driven enterotome for the rapid removal of helminths from the gastrointestinal tracts of large mammals 90
SHUMARD, R. F. Piperazine citrate as an anthelmintic in domestic animals 100
SHUMARD, R. F. Some nutritional and physiological changes taking place in lambs infected with *Haemonchus contortus, Trichostrongylus colubriformis,* and *Nematodirus spathiger* 106
SHUPE, J. L. (see Hammond, Shupe, Johnson, Thorne and Fitzgerald) 18
Simuliidae (Insecta), as vectors of *Ornithofilaria fallisensis* 114
Skrjabinoptera phrynosoma (Nematoda), morphogenesis of female reproductive system of 111
SMALLEY, H. E. (see Hunter, Kemp, Smalley, Wilkins and Dixon) 39
SMITH, B. F. The effect of cysteine on growth of *Trichomonas vaginalis* 13
SPRENT, J. F. A. The life history of *Ophidascaris filaria* in the carpet snake, (*Morelia argus*) 98
SPRENT, J. F. A. The life history of *Toxascaris leonina* in the cat 96
SPRENT, J. F. A. The life history of *Toxocara cati* in the cat 97
STIREWALT, M. A. Penetration of host skin by cercariae of *Schistosoma mansoni*. I. Observed entry into skin of mouse, hamster, rat, monkey and man 35
STIREWALT, M. A. (see Evans and Stirewalt) 36
STIREWALT, M. A. (see Kruidenier and Stirewalt) 34, 79
STRANDTMANN, R. W. Food preference and longevity of the spiny rat mite, *Echinolaelaps echidninus* 71
Strongyline nematodes in sheep, and pasture rotation 108
Strongyloides ratti (Nematoda), certain phosphate compounds in larvae of 124
Strongyloides ratti (Nematoda), glycogen and phosphate esters in larvae of 125
STUNKARD, H. W. The life cycle of *Azygia sebago* Ward, 1910 78
SWARTZWELDER, J. C. The treatment of human helminthiases with piperazine citrate 127
SWARTZWELDER, J. C. (see Brooke, Swartzwelder, Payne, Weinstein and Frye) 1
SWARTZWELDER, J. C. (see Jones, Swartzwelder and Abadie) 124, 125
SWEATMAN, G. K. Observations on the life cycle of the parasitic mite *Chorioptes bovis* (Gerlach) using an *in vitro* technique 72
SWEATMAN, G. K. The relation between lesions in lambs and the development of the cysticerci of *Taenia hydatigera* Pallas, 1766 60
Taenia hydatigera (Cestoda), cysticerci of, and lesions in lambs 60
TAYLOR, D. J. Virulence studies with a strain of *Entamoeba histolytica* maintained *in vitro* in liquid media 5
THOMAS, L. J. Echinococcosis on St. Lawrence Island, Alaska 54
THORNE, J. (see Fitzgerald, Johnson, Thorne and Hammond) 15
THORNE, J. (see Fitzgerald, Thorne, Johnson and Hammond) 14
THORNE, J. (see Hammond, Shupe, Johnson, Thorne and Fitzgerald) 18
THORSON, R. E. The effect of extractions of the amphidial glands, excretory glands and esophagus of adults of *Ancylostoma caninum* on the coagulation of dog's blood 103
THORSON, R. E. Proteolytic activity in extracts of the esophagus of adults of *Ancylostoma caninum* and the effect of immune serum on this activity 102
Toxascaris leonina (Nematoda), life history of 96
Toxocara cati (Nematoda), life history of 97
Toxoplasma (Protozoa), enhancement of virulence of 30
Toxoplasma gondii (Protozoa), relation of inoculum size to time to death in mice 25
Toxoplasmosis, canine, prevalence of, in Memphis 27
Toxoplasmosis, murine, immunity in 26
TRAVIS, B. V. (see Kirner, Barbehenn and Travis) 7
Trichinella spiralis (Nematoda), acquired immunity to 121
Trichinella spiralis (Nematoda), establishment of, in fistularized rats 92
Trichinella spiralis (Nematoda), susceptibility of hamsters to 91

Trichinosis, diagnosis 94
Trichomonad flagellates, physiology of 12
Trichomonads from swine, in experimental bovine infections 15
Trichomonas vaginalis (Protozoa), growth of 13
Trichomoniasis, treatment of bovine 14
Trichostrongylus colubriformis (Nematoda), nutritional and physiological changes in lambs infected by 106
Trichuris vulpis (Nematoda), extra-corporeal hatching of eggs of 120
Trichuris vulpis (Nematoda), phthalofyne as treatment for 93
Trypanosoma cruzi (Protozoa), biochemical studies of 9
Trypanosoma diemyctyli (Protozoa), incidence in *Diemyctylus v. viridescens* 8
Trypanosoma equiperdum (Protozoa), immunity to, induced by oxophenarsine treatment 11
Trypanosoma lewisi (Protozoa), growth factor for 10
TWOHY, D. W. The early migration and growth of *Nippostrongylus muris* in the rat 128
TWOHY, D. W. The role of the skin and lungs in the development of *Nippostrongylus muris* 110
VAN DOORNINCK, W. M. (see Becker, Pattillo, Farmer and Van Doorninck) 19
VOGE, M. Experimental demonstration of life cycle of *Hymenolepis citelli* (McLeod, 1933) (Cestoda: Cyclophyllidea) 62
WALTON, A. C. Parasites of Amphibia 130
WALTON, B. C. The "nasal-leech" *Dinobdella ferox* from Borneo and Malaya 64
WARD, H. Acanthocephala of the genus *Centrorhynchus* from birds of Egypt 85
WARREN, L. G. Biochemical studies on chicken macrophages infected with *Trypanosoma cruzi* (Chagas) 9
WARREN, M. Studies on lipid metabolism in cestodes 57
WEINSTEIN, P. (see Brooke, Swartzwelder, Payne, Weinstein and Frye) 1
WHARTON, G. W. (see Hyland and Wharton) 87
WILKINS, O. P. (see Hunter, Kemp, Smalley, Wilkins and Dixon) 39
WILLIAMS, J. E. Applications of molluscacides against juvenile *Oncomelania nosophora* for repopulation control 48
WILLIAMS, J. E. (see Moon, Otori, Williams, Frick and Ritchie) 47
WILSON, G. I. (see Kates and Wilson) 107
WYKOFF, D. E. (see Sasaki, Wykoff, Yokogawa and Ritchie) 2
YOGORE, MARIANO. (see Read and Yogore) 51
YOKOGAWA, M. Studies to maintain excysted metacercariae of *Paragogonimus westermani* in vitro 50
YOKOGAWA, M. (see Sasaki, Wykoff, Yokogawa and Ritchie) 2
YOUNG, M. D. The effectiveness of piperazine citrate against intestinal parasites, especially *Ascaris*, in mental patients 99
YUTUC, L. M. The extra-corporeal hatching of the eggs of *Trichuris vulpis* 120